

June 10, 2010

US EPA RECORDS CENTER REGION 5

Mr. Sam Chummar Work Assignment Manager U.S. Environmental Protection Agency (EPA) 77 West Jackson Boulevard (SR-6J) Chicago, IL 60604

Subject:

Field Oversight Summary for May 17 through June 3, 2010

Plainwell Mill Site, Operable Unit No. 7 of

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

Plainwell, Allegan County, Michigan

Remedial Action Contract (RAC) 2 No. EP-S5-06-02

Work Assignment No. 041-RSBD-059B

Dear Mr. Chummar:

SulTRAC has prepared the enclosed summary to document Phase II remedial investigation activities at the above-referenced site from May 17 through June 3, 2010. Weyerhaeuser Company is the potentially responsible party for the site, and Conestoga-Rovers & Associates, Inc., (CRA), is its environmental contractor. Appendix A of this summary contains a photographic log of the investigation activities. Appendix B contains SulTRAC's field oversight notes. Attachment 1 contains CRA's site maps with proposed sample locations.

If you have any questions about the enclosed summary, please call me at (312) 201-7491.

Sincerely,

Jeffrey J. Lifka

Project Manager

Enclosure

cc:

Thomas Harrison, EPA Contracting Officer (letter only)

Ron Riesing, SulTRAC Program Manager

Cheryl Gorman, SulTRAC Environmental Geologist Bethany Hand, SulTRAC Environmental Scientist

File

ENCLOSURE

FIELD OVERSIGHT SUMMARY FOR MAY 17 THROUGH JUNE 3, 2010 PLAINWELL MILL SITE PLAINWELL, ALLEGAN COUNTY, MICHIGAN

(Nine Pages)

FIELD OVERSIGHT SUMMARY FOR MAY 17 THROUGH JUNE 3, 2010 PLAINWELL MILL SITE PLAINWELL, ALLEGAN COUNTY, MICHIGAN

SulTRAC Oversight Personnel:

Bethany Hand and Cheryl Gorman

Reporting Period:

May 17 through June 3, 2010

INTRODUCTION

As requested by the U.S. Environmental Protection Agency (EPA) under contract number EP-S5-06-02 and work assignment number 041-RSBD-059B, SulTRAC oversaw Phase II of the Remedial Investigation (RI) for on-site buildings at the Plainwell Mill Site, Operable Unit No.7 of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site in Plainwell, Michigan. Weyerhaeuser Company (Weyerhaeuser) is the potentially responsible party (PRP) for the site. Conestoga-Rovers & Associates, Inc. (CRA) is the environmental consultant to Weyerhaeuser.

Activities for this sampling period began on May 17, 2010, and as requested by EPA, SulTRAC began oversight activities at the site on May 26, 2010. SulTRAC obtained updates for sampling activities from CRA for the days SulTRAC was not present. This report summarizes SulTRAC's oversight activities and documentation of the PRP's Phase II activities from May 17 through June 3, 2010; issues and developments that arose during the oversight activities; and future activities. Appendix A contains a photographic log of the site activities, including Photographs 1 through 4. Appendix B contains a copy of SulTRAC's field oversight notes. Attachment 1 contains CRA's site maps (Figures 1 and 2) with proposed sample locations (Figures 3A through 6).

RI ACTIVITIES

During the sampling period of May 17 through June 3, 2010, SulTRAC provided oversight from May 26 through June 3, 2010. SulTRAC observed CRA collecting soil samples from soil borings and groundwater samples from temporary wells throughout the site. CRA maintained at least two field technicians on site (David Rivers, Corrie Bondy, and/or Evan Varnas). SulTRAC did not collect any split samples during this sampling event.

From May 17 through 25, 2010, CRA conducted test pits and advanced soil borings throughout the site. The locations of the test pits and soil borings are presented on CRA's figures as shown in Attachment 1. Twenty-five test pits were proposed; however, an additional test pit was added next to MW-5 for a total of 26 test pits excavated throughout the site. Test pits did not reveal any visual contamination or evidence of residual paper. Soil samples were collected from the test pits in accordance with CRA's field sampling plan (FSP) (CRA 2009). CRA advanced approximately 60 soil borings during this time period and collected up to two soil samples per location. Soil samples were collected in accordance with CRA's FSP (CRA 2009).

SulTRAC was on site from May 26 through June 3, 2010 to provide oversight of CRA's sampling activities. CRA collected soil samples from soil borings and groundwater samples from temporary monitoring wells. The soil borings were advanced using a track-mounted Geoprobe[®], access permitting, throughout the on-site buildings. A jack-hammer was used at locations where access was limited by either the width of the Geoprobe or overhead clearance. The soil samples were collected for analyses for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), polychlorinated biphenyls (PCB), target analyte list (TAL) metals, and general chemistry parameters. The groundwater samples were analyzed for VOCs, SVOCs, PCBs, and TAL metals (filtered and unfiltered). At soil boring locations where visual or olfactory evidence of contamination was encountered, samples were collected for cyanide analysis.

Prior to collection of groundwater samples from the temporary wells, groundwater quality parameters were recorded by CRA. Samples were collected after the parameters had stabilized. The parameters measured were pH, temperature, specific conductivity, oxidation-reduction potential, and dissolved oxygen.

Groundwater quality parameters were obtained at 5-minute intervals. Turbidity was not measured because

two TAL metal samples, filtered and unfiltered, were to be collected at each location. Groundwater collected from the temporary wells appeared clear.

During this sampling event, all soil cuttings and purge water were placed in 55-gallon steel drums and were affixed with proper labels. The concrete cores were placed in plastic resealable bags, with the location labeled on the bag as requested by the Michigan Department of Natural Resources and Environment (MDNRE).

The following are summaries of the daily activities while SulTRAC was on site providing oversight. Details of the daily activities are recorded in the field notes presented in Appendix B.

Wednesday, May 26, 2010

SulTRAC representative Bethany Hand conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Corrie Bondy), the field project coordinator (Jodi Dembowske), CRA's drillers, and CRA's surveyors. The field project coordinator was on site infrequently throughout the day, and the sampling and logging were conducted by the field technicians. CRA had two drilling crews working concurrently throughout the site to expedite sample collection. Each team of drillers had one field technician logging and collecting soil samples. One CRA drilling crew began drilling in the northern portion of building 19 while the other crew began drilling in the basement of building 9. A total of 24 soil borings were advanced throughout the day. Most soil samples consisted of either (1) fill materials in the upper soil intervals followed by native sand and gravel materials or (2) all native sand and gravel materials. Up to two soil samples were collected from each soil boring location for laboratory analysis. Only one soil sample could be collected from some of the soil boring locations due to the shallow groundwater table (4 to 10 feet below ground surface [bgs]) and low soil recoveries. Soil samples were collected for analyses for VOCs, SVOCs, PCBs, TAL metals, and general chemistry parameters.

One drilling crew had difficulty drilling inside the buildings because of the thickness of the concrete (over 20 inches thick), requiring use of a concrete corer to advance through the concrete. Fly-ash appeared to be present at soil boring location SB-263, and a temporary well was installed at this location.

Thursday, May 27, 2010

SulTRAC representative Bethany Hand conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Corrie Bondy), the field project coordinator (Jodi Dembowske), CRA's drillers, and CRA's surveyors. The field project coordinator was on site infrequently throughout the day, and the sampling and logging were conducted by the field technicians. CRA had two drilling crews working concurrently throughout the site to expedite sample collection. Each team of drillers had one field technician logging and collecting soil samples. One CRA drilling crew continued drilling in building 19, while the other crew began drilling in buildings 1 and 1A (see Photograph No. 1 in Appendix A). A total of 25 soil borings were advanced throughout the day. Soil borings were attempted at three additional locations, but the Geoprobe encountered refusal. Most soil samples consisted of either (1) fill materials in the upper soil intervals followed by native sand and gravel materials or (2) all native sand and gravel materials. Up to two soil samples were collected from each soil boring location for laboratory analysis. Only one soil sample could be collected from some soil boring locations due to the shallow groundwater table (4 to 10 feet bgs) and low soil recoveries. Soil samples were collected for analyses for VOCs, SVOCs, PCBs, TAL metals, and general chemistry parameters.

A layer of residual paper and coal slag was found at soil boring locations SB-2011 and SB-2010 (see Photograph No. 2 in Appendix A). Samples collected from these two borings were also analyzed for cyanide. A below-grade vault was discovered when drilling inside building 3 at soil boring location SB-226. The drilling crew moved the soil boring location approximately 10 feet but still encountered the vault; therefore, a soil boring was not advanced at this location on this day. A soil sample jar collected from 8 to 10 feet bgs at soil boring SB-327 in the Sludge Dewatering building was broken, and a sample re-collection occurred. A temporary well was also installed in the Sludge Dewatering building at soil boring location SB-326. Soil boring SB-2010 had to be moved approximately 1 foot to avoid underground utilities at the originally proposed location.

Friday, May 28, 2010

SulTRAC representative Bethany Hand conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Corrie Bondy), the field project coordinator (Jodi Dembowske), CRA's drillers, and CRA's surveyors. SulTRAC discussed with CRA the soil boring locations that had to be moved because of either inaccessibility or multiple refusals. During this time, the drillers were also using the concrete corer to penetrate thick concrete at soil borings SB-253, SB-209, SB-251, SB-271, and SB-256. Discussion of the situation among the EPA Work Assignment Manager (WAM) (Sam Chummar), the SulTRAC project manager (Jeff Lifka), and the CRA project manager (Greg Carli) led to agreement

that the following soil borings would be re-located due to refusals: SB-270, SB-226, SB-256, SB-229, SB-228, SB-235, SB-251, SB-252, SB-297, SB-267 and SB-248. Moreover, because soil borings SB-259 and SB-260 also were inaccessible, these two locations were combined into one location outside of the crawl space in building 26/27 and into building 11. Soil samples were not collected on this day because the laboratory would not accept samples for delivery on Saturday.

Tuesday, June 1, 2010

SulTRAC representative Cheryl Gorman conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Evan Varnas), the field project coordinator (Jodi Dembowske), CRA's drillers, and CRA's surveyors. The field project coordinator was on site infrequently throughout the day, and the sampling and logging were conducted by the field technicians. When SulTRAC arrived on site, Jodi Dembowske was instructing the utility locators to clear the new sample locations discussed the previous week, and drilling crews were using the concrete corer to penetrate the thick concrete at SB-251. One field technician (David Rivers) was with the drillers beginning in building 9A, and the second field technician (Evan Varnas) was collecting groundwater samples from the temporary well installed the previous week. A total of four soil borings were advanced throughout the day, and groundwater samples were collected from three temporary wells. Most soil samples consisted of either (1) fill materials in the upper soil intervals followed by native sand and gravel materials or (2) all native sand and gravel materials. Up to two soil samples were collected from each soil boring location for laboratory analysis. Only one soil sample could be collected from some of the soil boring locations due to the shallow groundwater table (4 to 10 feet bgs) and low soil recoveries. Soil samples were collected for analyses for VOCs, SVOCs, PCBs, TAL metals, and general chemistry parameters. Groundwater samples were collected for analyses for VOCs, SVOCs, PCBs, and TAL metals (filtered and unfiltered).

After several attempts to core through the thick concrete at locations SB-251 and SB-252, these locations were not sampled on this day, and CRA's field technician said he would inquire of the field project coordinator whether these two locations could be skipped. The temporary well installed the previous week at location SB-246 did not produce water, and therefore this location was re-drilled and a new temporary well was installed. The groundwater sample collected from the temporary well set at SB-263 was also to be analyzed for cyanide.

Wednesday, June 2, 2010

SulTRAC representative Cheryl Gorman conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Evan Varnas), the field project coordinator (Jodi Dembowske),

CRA's drillers, and CRA's surveyors. The field project coordinator was on site infrequently throughout the day, and the sampling and logging were conducted by the field technicians. One field technician (David Rivers) was with the drillers operating the Geoprobe at the northern portion of the site next to building 28, and the second field technician (Evan Varnas) was with the drillers operating the jack-hammer in the train shed, next to building 1. A total of nine soil borings were advanced throughout the day, and groundwater samples were collected from one temporary well at soil boring location SB-246 (see Photograph No. 3 in Appendix A). Most soil samples consisted of either (1) fill materials in the upper soil intervals followed by native sand and gravel materials or (2) all native sand and gravel materials. Up to two soil samples were collected from each soil boring location for laboratory analysis. Only one soil sample could be collected from some of the soil boring locations due to the shallow groundwater table (4 to 10 feet bgs) and low soil recoveries. Soil samples were collected for analyses for VOCs, SVOCs, PCBs, TAL metals, and general chemistry parameters. Groundwater samples were collected for analyses for VOCs, SVOCs, PCBs, and TAL metals (filtered and unfiltered).

Sampling with the jack-hammer yielded much lower recoveries, and two soil samples were not collected from each of several locations. A temporary well was installed at soil boring location SB-297 (see Photograph No. 4 in Appendix A).

Thursday, June 3, 2010

SulTRAC representative Cheryl Gorman conducted oversight activities. CRA personnel on site included two field technicians (David Rivers and Evan Varnas), the field project coordinator (Jodi Dembowske), CRA's drillers, and CRA's surveyors. The field project coordinator was on site infrequently throughout the day, and the sampling and logging were conducted by the field technicians. Only two soil borings were to be advanced on this day with the jack-hammer. One soil boring was advanced to re-sample SB-225 because the sample jar had broken at the laboratory. The field technician, David Rivers, collected the soil samples with the drillers. The other field technician, Evan Varnas, collected groundwater samples from the remaining temporary wells located at SB-297 and SB-279. Soil samples were collected for analyses for VOCs, SVOCs, PCBs, TAL metals, and general chemistry parameters. Groundwater samples were collected for analyses for VOCs, SVOCs, PCBs, and TAL metals (filtered and unfiltered).

CRA finished all sampling activities as part of this Phase II building investigation and began (1) filling in the borings with bentonite chips and (2) resurfacing with concrete at the soil borings located within the onsite buildings. The temporary wells were removed and abandoned.

ISSUES AND DEVELOPMENTS

No major issues or developments arose during this period of oversight activities. Many soil boring locations had to be re-located due to refusals or space constraints within the buildings. Drilling within the buildings was difficult due to the thickness of the concrete (over 30 inches in some locations), precluding sampling at some locations. Although CRA continued to secure the buildings while offsite, evidence that unauthorized people were entering the buildings overnight was encountered, and that continued to be an issue throughout this sampling event. The local police were called on several occasions to ensure the safety of CRA's and SulTRAC's staff.

FUTURE ACTIVITIES

Future sampling activities are not planned at this time. CRA will evaluate data received from its laboratories and report the results to EPA. If upon receipt and evaluation of the sample results it is determined that additional sampling is warranted, SulTRAC will oversee the sampling activities as requested by EPA.

SulTRAC will also continue to provide technical review of any documents generated by the PRP and provide technical comments to EPA as necessary.

REFERENCES

Conestoga-Rovers & Associates (CRA). 2009. "Multi-Area Field Sampling Plan – 12th Street Landfill Site (Operable Unit No. 4) and Plainwell Mill Site (Operable Unit No. 7) – Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site – Revision 05." September 23.

APPENDIX A SULTRAC PHOTOGRAPHIC LOG

(Two Pages)

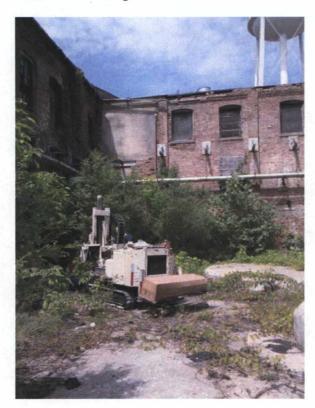


Photograph No. 1 Orientation: South

Description: Northern entrance to Buildings 1 and 1A.

Location: Plainwell Mill Site

Date: May 27, 2010

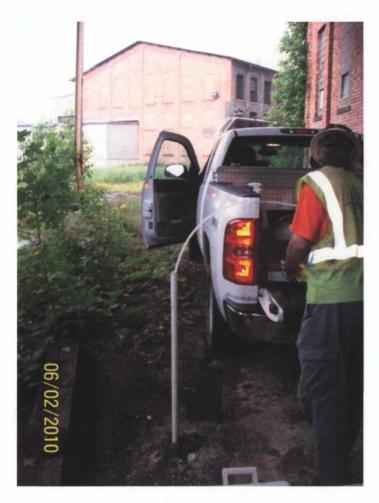


Photograph No. 2 Orientation: North

Description: Soil boring location SB-2011.

Location: Plainwell Mill Site

Date: May 27, 2010

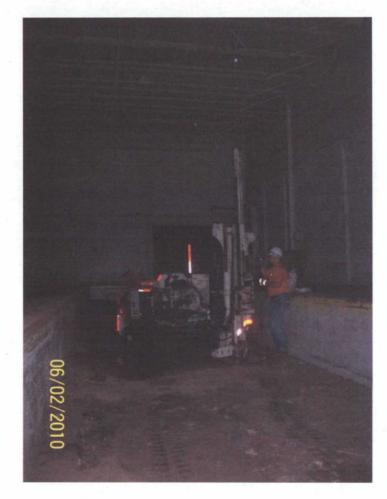


Photograph No. 3 Orientation: North Location: Plainwell Mill Site

Date: June 2, 2010

Description: Conestoga-Rovers & Associates, Inc. (CRA) collecting

groundwater samples from temporary well located at SB-246.



Photograph No. 4 Orientation: West Location: Plainwell Mill Site

Date: June 2, 2010

Description: CRA collecting soil samples from soil boring SB-297.

APPENDIX B

SULTRAC OVERSIGHT FIELD NOTES

(14 Sheets)

125 locations 25 test pits 1810 5-26-10 Plainwell Mill Six Sunny 0900 Tetra Tech onsite - Taigate meeting - met with podie to go over site details There have been 2 10 cootions so far they were unable to get to -239 & 261. But they will go back and my Alegain or get klose to it. Also unable to get to locations within the lab area but will get a sample from just outside the studge Delvaking Building There may be some one who has been getting into the site pulldings not sure if modericuls are being stoken. Crews are sampling according to Plan. They have been hitting water at about 4-18 Feet # 275 Sample taken to 10 Feet sworking with David From CRA - He is collecting Characterizing, & sampling the plugs that Come in They have already finished 50-60 locations and should Fight up next wee K # 274. low over head clearance so had to 1041 use short tubes for sample - went to 9' David has been collecting samples at and again at 2 dove water table. Has 1 + seun anything to warrant 3rd sample.

Summary 5-26-10 Finished test pts on monday Were woulde to finish Inday to do rain and the sides coving in 120 #268 10' sample . - Being close to over - all the samples have been Principly Sand Hus Far 145 of ste - Cunch 7 samples before lunch 1245 #267 0-5' contained back Fill and pain yerlded a 1.5' of recovery - went back for another 0.5' Boreing hot wastes out about 5' photo 1 > Neptrance to Building samples 1315 # 263 0-5' contained Black Ash - AND 5-10' Too muddy & wet to collect soil sample - It is very dank, black, gi Mars No oder, but some sitt. David requested a temp well set up at the location. The PIB didn't alarm. but elevated once but the water. ~ 45 1345 #222 will do 0-4' sample there was 14" concrete at this location. organics Silty sand ~ 5-8

Katemoria de con Hainwell Mill 5-26-10 lout... # 223 0-9' collect but low recovery 1420 #264 - Suggest putting temp monitoring close and same conditions. Getting refusal @ # 263. Some Clay at 6-8' # 225 Jack hammer used - low recovery 1500 # 200 MS/MSD 1510 1530 # 269 - good Recovery Dry until ~ 7' 1545 # 258 # 270 . 2 attempts at 0-5' ony 10" of recovery 11005 only one sample possible 5-10' - No recovery Sample Location dext to a trench David collected 17 samples locations and 31 Samples Corrie got 7 sample locations done to They had problems getting through concrete but some locations. These may need to be cored

Sunny A ROPS 5-27-10 Plainwell mill 0700 Tetra tech ousite working in Building 1 Overseeing Corrie There are 8 sample locations here
photo 3 Nide entrance to Building / shoto 4 vat inside Building /A Starting with # 205, 206, 207 inside. bulding 1 A Photo 5 Nside Build / # 1A 0745 # 200 information : city want s to keep tanks had to move location in Building 25 there was a fur pine 18005318120845 # 206-got rusal at this location with the trenches and podistals inthis room May propose to move across The room to thorough cover vorm, but have to get clearance from whites - The test pits were the didn't show anything Summary one showed remnants of an old house - Added a 26th well year MW-5 - no evidence of residual paper They will write a memo about all the refusals and propose the alternate locations

5-27-10 Plainwell Cont.
0900 #205 - Dup
0930 Finished in Building 1A-moving to Building 3
1259, 200, 201 201 15 on top of machinary.
Building 28/29 in Between space. They tried 259/200
but it was contruction debris then contrete they
couldn't sample it grabed surface sample They
 will propose to move is out of crawl space ever
1000 The 2nd rig broke over at Building 19
so David and the crew are going to the
studge De autering plant to recollect one
sample there where one broke, set a
temp well, and collect I remaining soil have
location Doug will try to fix rig
1010 #217 \$ 218
Aboto 6 - Soil IDW in side Studge Dewnstering Blogs
1045 Photo 7 Installing temp MW inside
Sudge Dewater Bldg. 7-10' Well
Studge Dewoder Bldg. 9-10' well The tip got clogged so they had to make a new
1140 #327 B-8-10 sample - had to recollect due
to broken sample jar
1200-1236 Lunch
1245 - Last soil Boring @ Studge Debater Bldg
Ohoto / 1 0-15 #390 J

1300 # 216 had to use a jack hammer got very low recovery 1400 David's Dall Team disposered an under ground coult. Almoble to recovery a sample @ #226 He tried 10 feet away and still buent through to the vault - located within Bldg 3 1915 # 2012 Done 1500 # 265 0-7,5' done w/ Jack hammer to Finish # 275 w/ pack harmen then will be out of sample pers 1520 #2011 outside sample - luyer of tine paper material pelow ground - 4 day Stag located - 3-4' Dhato 8 # 9 South side of building Mar MW-2 1530 # 2010 has to be moved a 1ft to clear utility lines - phato 10 1410 Corrie did 16 samples Jocations but I was a refusal so 15 revovered David did 10 (Decations & 2 refusals Next week there are 9/locations, 10 Refuseds If we relocate approvad if utility clear Buhany, Jano

5/28/10 Hounwell Mill Site got approval to field approve location changes due to refusals or Blockages where Locations are location 0800 Torra tech onsite Crews are working at coving locations where concrete was too Pluck to penetrate +253, 209, 251, 271, 256 Refusals #270 - to make a bigger hole to see an out concrete debns and see if possible to get a boring If not working they will move location 15' to the east away from a wall # 259 + #260 - to create I new Location outside of crawl space area 28/29 into Bldg 11 # 226 Inside vault-moved 10 feet N and still hit the vault. There are many samps of machingy in this room will Try to move further N b/c there are locations Covering the other directoris # 256 2' of concrete got minimum recovary, wants to move 10' SW and have coved

#229 Refusal @2" # 228 Refusal @ 3.5' => will make 229-B Between the 2 locations #1235 Refusal @ 2' will fry ~ 51 West on the other side of the treach # 251 Gored over 2' of concrete - will move location outside concrete pad 10'SE # 250 2.5' of concrete & still didn't get through there is a large concrete pad here. To move \$5' So to proude ample coverage in the room (252-B) #297 Refusal @ 3' Will move North into the loading Book This area's ~5' lower and less concrete. They will have to avoid the old railroad spurs. # 247 Refusal @ 2/15'-move, 5' Nw outside seam #248 Rufasal @ 6' was able to sample 0-1 & 4-6 WILL MOVE ~3' N (248B)

Allied-Plainvell Drilling acought 1040 SultRAC Amines on site (C. Gornan) pellin sit orientation from CRA Culled Sodi from CPA - she is drilling in the Will of Dand, Evan is GW Sampling. Net with Jolli Dembauske 0011 and she has been ne-locating Intitio for the new drilling location David hos started soil sampling and Elan is beging grandrates Sampling. Jodi will direct me to the drilling locations of David. SB-251 drilley through concrete
Met with David from CFA - Jodi
left the site to go to the landfill CRA to break for hisch 1300 Begun drilliz as SB2009-5B251 had 2 of concrete, CRA was istructed to Bucy concrete come and label bugs for possibly future demo of buildings. Insmited By Mora Two attemps to don't through 20 of Concrete at SB-251 and could not reach soil wat David will take - Clast

Allied Plainvell Drilling Oversight 6/1/10 de Jadi about moning location. SB 2009 Med bun sat gul coarse 5-10 0-5' ak boun sadgul PID reading 1~0.8 1 do Conenete 1-2' sample VOC, PCB, SUX, Met 5-7' sample VOC, PCB, SVOC, Met 1310: SB253 32" of concrete only one sample collected from the location because water une encounte at 6'bgs. Water out 4.5' bys 0-5' Honngrl Sumpled wished we such me 1 ppm PID from 0-5 0.422m PID for 5-10 for these two parnings they used a track manufed gropose Model 6010 DT Bran sumpled Tw 2001 - used penstiltic unil neset tw 246 b/c no nate in faint compet tenp vell set Compre collected a analysed for VOC, SVOC, PUB, Fillered a infilled

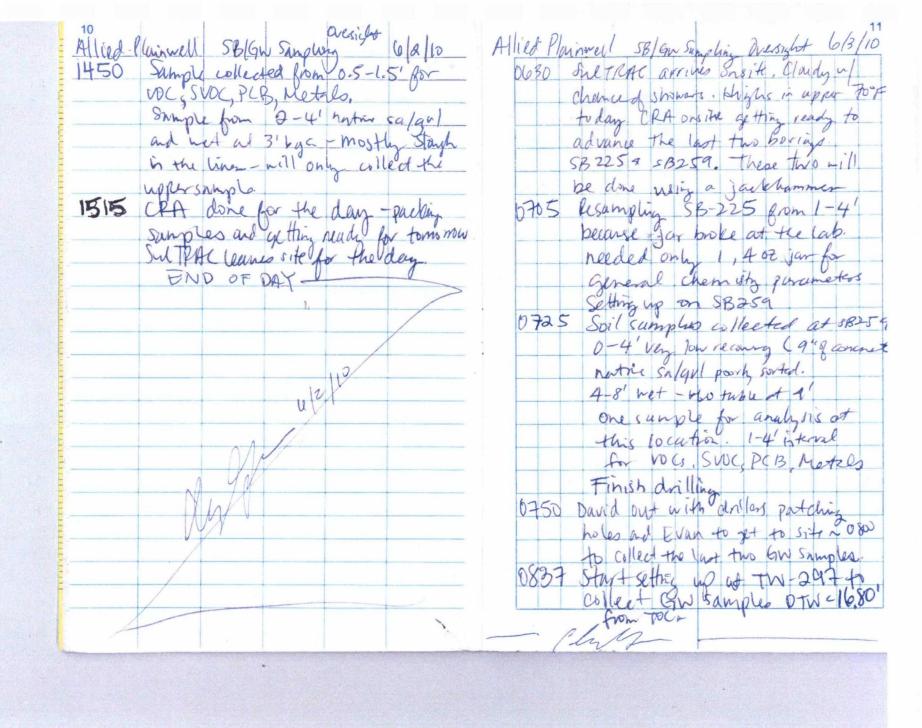
Allied Plainvell Onling 19W onesight 1415: Evan sets up at TW-263 1430: Set up peristellic purapard Davidis with Onles is stalling the temp well that was day (Tw 346) DTW = 5.36 from toc. tocis approximately 1' above grand surface. Stabilize parameters pH, conductinity DO, DRP, temp. No turbidity because polition metals. - mater is pretty clear at the tim of sampling Collect Gw sample from Tw-263 temp Conduct | BRP DO 7.22 13.89 0.678 -68 0.29 1455 7.22 B.87 0.677 -78 0.30 1500 4.23 13.84 0.674 -85 028 7,23 13.84 0.673 1-88 analysis VOC, SUOC, PUB, Metals & frifkred Metald, CN (Evan to park samples) CRA Collecting Samples at 58270 1308 sampled 6-7' kelow concrete (PN) 3-5' below congreto (Fill) lots of gravel so recovery has not great fore these sumpos - sampled for same purameters, Mad at 51 - used truck manted

Alliest prainted SBIGWSunging Duronto 66/10
0700 Sul TRAC arrived onsite. Raining of Thunder
a brightening. CRA arrived 0630 to set up for the day Mark onthy on northwest side of side while Evanis in The Southwest portion of the site to get started with dalling inside w/ Jackhammer Sample collected from SB2013 Mostly fill in the top sample 05 5-10": Some organic material for orthy material ~ 4" is middle of 12 rampled for WC, 8vor, PCB, Metals 3.5' sampled for voc, 8 voc, POB, Metalo Sample collected from SB226 No neconey from 5-10 internal Sample allested for 1-4 b/c of such lar recovery from ors as well. Ereoprope setting up at \$8000. (I cample) 1-40 Sumple for VOL, SUOC, P.B. Metals 0805 Samples collected from SBOOLO. N 8" 90 conquete 0-2 sampled for VOL SVOL, PCB, Metalo 2.5-4.5' Sampled for VOC SVOR PCB, Metale vate " to samplo are fill material,

6/2/10 Allved-Plainnell SB/Gn Samplin 0840 Mone to SB296297 05 2" grow / sa med bur - Pollowed by bk fill to 5' LI sonter a slag meterale u coal. 5 to surfed and goin salmed tok bun 10-15' nation ~ 12-15' salget much It han I Rolly poorly switch 15-20': Notice naterials Salar worky sorted. Nato at 16' Sa 0-1' Jampie allested for WC SWEPER 14-16' Sample collected for waster PUBMO (one got of assiphalt above the soil) (2 samples collected will set a temp well at this ocation. Took picture at this location 0905 Drillers installing the tempnell. setting it at oo bys packense = while David was certling with geoprobe Evan was nothing with grup in building 1A with Jackhammer Sumples cillected at 58009 458210 2 samples collected from SB210: 0.5-1.5 Sumple collected 3-51 symple collected

Allied-Plumell SB(GW Sampling Overagly 6/2/10 SB209 was able to set down to 81 bys, not saturated soil but mont- Drilles says they can't get any deeper so EDB as 81) sample collected as D-1' for vois svol PLB med 6-8' AT VOL SVOC PCB TOR MUST Matine material salgy! 1025 Pavid sampling / Purging TW246 DTW = 13,21 from grand surface. Sumple collected at SB808 1100 0-4 1-11 4-6-refuel at le fol sampled at 0-1' and 4-10' 1115 Sumple allected at Tw 246 for LOC SVOL PLB Filered & unfilkend Metale, sample from 1045 ORA on hunch (drilles) David setting 1130 up at TW297 and organizing samples Driller returnill set up and stant 1215 at 5B248 1315 still drilling at SB248 Were able to sample to 2' flow Vapasal. Snapled at 0.5-1.5 for

Allied-Plumell Blaw Sampling Ovanst6/2/10 MC, SWI PCB, Metale, only one sumple collected at 88268 (sample is fill material w/sa/gv/stay) rinter 1410 Sumple collected at \$ B235 0.5-1.5005-2' sampled for VOC, SVOL, PLB, Metals Sil material. Water A 5 sumpled 3-5' for voc, svoc, PCB, Metals 1430 Started drilling at SB229 ballynote: all soil cuttings are being drummed and the concrete comes are being husged and lakeled for lates disposal? during demotite the molition of the building Police arrived onsite because some human activity has been occurring within the buildings at night Hems being moved around win the anildings, don called the Police deportment to investigate any unusual occurrances. Sungle collected from 0-2 at SB229



1 New of the Collection reading for tabilization purameters. Storted purpy 0825

TW-2927 Allief Plain Will SBI Get Sampling Oversight (3) 10

Freld events CPA plugging holes and pulling all temp wells and abundoning Pungent PH Temp Conduct ORP Furts Ime 1130 SultRAC Genno SIte, ENDOFINAY 0850 300 myn 7.40 12.43 0.753 Backnote: Soil sumples were not collected 1238 6.758 -29 1.22 from SB-252 because of the thick consiste 0900 7.42 1.24 0905 7.39 12.38 6.758 and relocating the bornings didn't wasn't 7.40 12.30 0.756 28 1623 successful. Same situation with SB251 Total gallon purged 25 gallers. CPA allected MSMSD sample at this location. Danble vo GA TOC to Grand surface ~ 2'. vol , Svol, Pig, filtred & unfiltred metals Finish sampling at TW 297 and set up at The 279. DTW = 6.66 from to Co Before Purging Water Quality parameters: DO Pungrate PH Temp Goodic ORP other 300 ml/mo 7.54 10.55 0.710 711 0.41 time 1020 7.52 10.55 0.707 1025 0.39 7.51 10.55 0.707 0.38 water northy clear - slightly ther sol Collect Gw Sample. VOC. SVOZ PCB, Altred of unfoltered metale. TOCH grand surface ~ 2' 1100 Finish collecting samples for this

ATTACHMENT 1 CRA SITE MAP AND SAMPLE LOCATION FIGURES

(Seven Sheets)

